Monitoring Data Record

Project Title: R-2210A Site 2 (Waynesville Site 2) COE Action ID: 200130653

Stream Name: DWQ Number: 010409
City, County and other Location Information: Sta. 17 on Bus. 23 S in Waynesville, Haywood Co.

Date Construction Completed: N/A Monitoring Year: (2) of 5
Ecoregion: 8 digit HUC unit 06010106
USGS Quad Name and Coordinates:
Rosgen Classification:
Length of Project: 900' Urban or Rural: Rural Watershed Size:
Monitoring DATA collected by: J. Elliott, J. Lancaster Date: 3/20/06
Applicant Information:
Name: NCDOT Roadside Environmental Unit
Address: 1425 Rock Quarry Rd. Raleigh, NC 27610
Telephone Number: (919) 861-3772 Email address: mlgreen@dot.state.nc.us
Consultant Information:
Name:
Address:
Telephone Number: Email address:

Project Status: Complete

Monitoring Level required by COE and DWQ (404 permit/ 401 Cert.): Level (**1**) ~~2~~ ~~3~~
Monitoring Level 1 requires completion of *Section 1, Section 2 and Section 3*
Permit States: NCDOT shall perform the following components of Level I monitoring twice each year for the 5 year monitoring period (summer and winter): Reference photos, plant survival, and visual inspection of channel stability. If less than two bankfull events occur during the first 5 years, NCDOT shall continue monitoring until the second bankfull event is documented. The bankfull events must occur during separate monitoring years. In the event that the required bankfull events do not occur during the 5 year monitoring period, the USACE, in consultation with resource agencies, may determine that further monitoring is not required.

Section 1. PHOTO REFERENCE SITES
(Monitoring at all levels must complete this section)

Attach site map showing the location and angle of all reference photos with a site designation (name, number, letter, etc.) assigned to each reference photo location. Photos should be provided for all structures and cross section locations, should show both banks and include an upstream and downstream view. Photos taken to document physical stability should be taken in winter. Photos taken to document vegetation should be taken in summer (at representative locations). Attach photos and a description of each reference photo or location. We recommend the use of a photo identification board in each photo to identify location.

Total number of reference photo locations at this site: 6 reference points, 2 photos at each
Dates reference photos have been taken at this site: 5/20/04, 11/1/04, 5/31/05, 3/20/06

Individual from whom additional photos can be obtained (name, address, phone):

Other Information relative to site photo reference: _____

_____

If required to complete Level 3 monitoring only stop here; otherwise, complete section 2.

Section 2. PLANT SURVIVAL
Attach plan sheet indicating reference photos.

Identify specific problem areas (missing, stressed, damaged or dead plantings):

Estimated causes, and proposed/required remedial action: The stream will be replanted in 2006.

ADDITIONAL COMMENTS: Stream is vegetated with various grasses, cattail and *Juncus* sp. Trees noted on site are alder, dogwood, maple, elderberry, and black willow. Vegetation is dormant at this time. Due to the lack of woody vegetation noted in past monitoring visits the stream was replanted in February 2006. The stream bank was live staked and the floodplain was planted with bareroot seedlings.

If required to complete Level 1 and Level 2 monitoring only stop here; otherwise, complete section 3.

Section 3. CHANNEL STABILITY

Visual Inspection: The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. Physical measurements of channel stability/morphology will not be required. Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

The stream has experienced some minor headcutting and bank erosion upstream of the pipe crossing but overall the stream is still stable. A bankfull event has occurred since the last monitoring visit. No remedial action is necessary at this time and NCDOT will continue to monitor the stream.

Date Inspected	Station Number	Station Number	Station Number	Station Number	Station Number
Structure Type					
Is water piping through or around structure?					
Head cut or down cut present?					
Bank or scour erosion present?					
Other problems noted?					

NOTE: Attach separate narrative sheets to each monitoring report describing/discussing the overall monitoring results. Include the identification of specific problem areas/channel failures, estimated cause and proposed/required remedial action. This should include a brief discussion of any parameter that has changed significantly from as-built.

Waynesville Site 2

Photo 1

Photo 2

Photo 3

Photo 4

Photo 5

Photo 6

Year 2 – March 2006